

10/554188

JC09 Rec'd PCT/PTO 21 OCT 2009

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Dated: \_\_\_\_\_

Docket No.: 20239/0202826-US0  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Natsuo Tatsumi et al.

Application No.: Not Yet Assigned

Confirmation No.: N/A

Filed: Concurrently Herewith

Art Unit: N/A

For: DIAMOND ELECTRON EMITTER AND  
ELECTRON BEAM SOURCE USING SAME

Examiner: Not Yet Assigned

**INFORMATION DISCLOSURE STATEMENT (IDS)**

MS PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450


Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement accompanies the new patent application submitted herewith.

A summary/abstract translation of the non-English language documents is enclosed.

A concise explanation of relevance of the items listed on form PTO/SB/08 is in the form of an English language copy of a Search Report from a foreign patent office, issued in a counterpart application, which refers to the relevant portions of the references.

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B./

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Substitute for form 1449A/B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	Not Yet Assigned
				Filing Date	Concurrently Herewith
				First Named Inventor	Natsuo Tatsumi
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	1	of	2	Attorney Docket Number	20239/0202826-USO

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup>	Number-Kind Code <sup>5</sup> (if known)				
	BA	JP	4-245135-A /	09-01-1992	NEW JAPAN RADIO CO LTD	Abstract only	✓
	BB	JP	10-294077-A /	11-04-1998	JEOL LTD	Abstract only	✓
	BC	JP	2001-68011-A /	03-16-2001	JAPAN SCIENCE & TECHNOLOGY CORP; NATL INST FOR RES IN INORG MATER	Abstract only	✓
	BD	JP	2000-243217-A /	09-08-2000	MATSUSHITA ELECTRIC WORKS LTD	Abstract only	✓
	BE	JP	2001-118488-A /	04-27-2001	NEC CORP	Abstract only	✓
	BF	JP	11-195371-A /	07-21-1999	MATSUSHITA ELECTRIC IND CO LTD	Abstract only	✓
	BG	JP	5-152604-A /	06-18-1993	CANON INC	Abstract only	✓
	BH	JP	7-21904-A /	01-24-1995	SHARP CORP	Abstract only	✓
	BI	JP	7-94077-A /	04-07-1995	SUMITOMO ELECTRIC IND LTD	Abstract only	✓
	BJ	JP	2000-223006-A /	08-11-2000	MITSUBISHI HEAVY IND LTD	Abstract only	✓
	BK	JP	8-250766-A /	09-27-1996	RES DEV CORP OF JAPAN	Abstract only	✓
	BL	WO	93/15522-A1 /	08-05-1993	MASSACHUSETTS INSTITUTE OF TECHNOLOGY		
	BM	JP	8-264111-A /	10-11-1996	AGENCY OF IND SCIENCE & TECHNOL	Abstract only	✓
	BN	WO	98/44529-A1 /	10-08-1998	VANDERBILT UNIVERSITY		
	BO	JP	10-149761-A /	06-02-1998	HAMAMATSU PHOTONICS KK	Abstract only	✓
	BP	JP	11-166860-A /	06-22-1999	SEIKO INSTRUMENTS INC	Abstract only	✓
	BQ	JP	2000-357449-A /	12-26-2000	HAMAMATSU PHOTONICS KK	Abstract only	✓

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
Examiner Signature	/Elmito Breval/		Date Considered 03/13/2008

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PTO/SB/08a/b (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

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				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	2	of	2	Attorney Docket Number	20239/0202826-US0

	CA	International Search Report for PCT/JP2004/013873 mailed February 1, 2005	
	CB	W. B. CHOI, Field Emission From Diamond Coated Molybdenum Field Emitters, J. Vac. Sci. Technol. B, Vol. 14, No. 3, May /June 1996, American Vacuum Society, pp. 2050-2055	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	/Elmito Breval/	Date Considered	03/13/2008
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